Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1461/2021-22	Date	22-09-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	21-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	22-09-2021
Technical Referance	MORTH Specifications

GSB MATERIAL			*15000*							
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1236	8.24	8.24	91.76	80-100	100	100	100	80-100	100
25	2624	17.49	25.73	74.27	55-90	70-100	55-75	50-80	55-90	75-100
10	2886	19.24	44.97	55.03	35-65	50-80	-	-	35-65	55-75
4.75	1002.2	6.68	51.65	48.35	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2046.8	13.65	65.3	34.7	20-40	30-50	-	-	10--20	10--25
0.425	3562.4	23.75	89.05	10.95	10--15	10--15	-	-	0-5	0-8
0.075	1526.2	10.17	99.22	0.78	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.66	Should not be more than 2%
2	Maximum Dry Density	2.02	-
3	Optimium Moisture Content	5.56	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1462/2021-22	Date	25-09-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	23-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	24-09-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken *15000*

I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	2021.2	13.47	13.47	86.53	80-100	100	100	100	80-100	100
25	1998.6	13.32	26.79	73.21	55-90	70-100	55-75	50-80	55-90	75-100
10	2625.6	17.5	44.29	55.71	35-65	50-80	-	-	35-65	55-75
4.75	2346.6	15.64	59.93	40.07	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2656.8	17.71	77.64	22.36	20-40	30-50	-	-	10--20	10--25
0.425	1526.2	10.17	87.81	12.19	10--15	10--15	-	-	0-5	0-8
0.075	1005.4	6.7	94.51	5.49	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.76	Should not be more than 2%
2	Maximum Dry Density	2.02	-
3	Optimium Moisture Content	5.32	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. ★ Bangalore ★

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1463/2021-22	Date	27-09-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	25-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	25-09-2021
Technical Referance	MORTH Specifications

GSB MATERIAL			***15000***							
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1242	8.28	8.28	91.72	80-100	100	100	100	80-100	100
25	2724	18.16	26.44	73.56	55-90	70-100	55-75	50-80	55-90	75-100
10	1986	13.24	39.68	60.32	35-65	50-80	-	-	35-65	55-75
4.75	998.6	6.66	46.34	53.66	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2145.6	14.3	60.64	39.36	20-40	30-50	-	-	10--20	10--25
0.425	3568.2	23.79	84.43	15.57	10--15	10--15	-	-	0-5	0-8
0.075	1862.4	12.42	96.85	3.15	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.68	Should not be more than 2%
2	Maximum Dry Density	2.02	-
3	Optimium Moisture Content	5.41	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanaswamy B

Karnataka Material Test House Pvt Ltd. ★ Bangalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1464/2021-22	Date	01-10-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	30-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extension, 4th Phase)
Date of Testing	30-09-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken			15000								
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	2021.2	13.47	13.47	86.53	80-100	100	100	100	80-100	100
25	1996.8	13.31	26.78	73.22	55-90	70-100	55-75	50-80	55-90	75-100
10	2436.6	16.24	43.02	56.98	35-65	50-80	-	-	35-65	55-75
4.75	2326.2	15.51	58.53	41.47	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2526.2	16.84	75.37	24.63	20-40	30-50	-	-	10--20	10--25
0.425	1426.2	9.51	84.88	15.12	10--15	10--15	-	-	0-5	0-8
0.075	998.6	6.66	91.54	8.46	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.78	Should not be more than 2%
2	Maximum Dry Density	2.04	-
3	Optimium Moisture Content	5.27	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

ಸಹಾಯಕ ... ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ ... ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd. Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1465/2021-22	Date	02-10-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	01-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	01-10-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken *15000*

I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1996.8	13.31	13.31	86.69	80-100	100	100	100	80-100	100
25	2020.4	13.47	26.78	73.22	55-90	70-100	55-75	50-80	55-90	75-100
10	2398.2	15.99	42.77	57.23	35-65	50-80	-	-	35-65	55-75
4.75	2242.2	14.95	57.72	42.28	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2632.4	17.55	75.27	24.73	20-40	30-50	-	-	10--20	10--25
0.425	1625.4	10.84	86.11	13.89	10--15	10--15	-	-	0-5	0-8
0.075	1624.8	10.83	96.94	3.06	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.78	Should not be more than 2%
2	Maximum Dry Density	2.04	-
3	Optimium Moisture Content	5.27	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. ★ Bangalore ★

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1466/2021-22	Date	06-10-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	04-10-2021
Source of Sample	Collected From the Site (AMs Layout, AMS Extention, 4th Phase)
Date of Testing	05-10-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken			15000							
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	2012.2	13.41	13.41	86.59	80-100	100	100	100	80-100	100
25	2122.8	14.15	27.56	72.44	55-90	70-100	55-75	50-80	55-90	75-100
10	2467.4	16.45	44.01	55.99	35-65	50-80	-	-	35-65	55-75
4.75	2163.4	14.42	58.43	41.57	25-55	40-65	10--30	15--35	25-50	30-55
2.36	1620.2	10.8	69.23	30.77	20-40	30-50	-	-	10--20	10--25
0.425	2562.4	17.08	86.31	13.69	10--15	10--15	-	-	0-5	0-8
0.075	1824.2	12.16	98.47	1.53	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.72	Should not be more than 2%
2	Maximum Dry Density	1.99	-
3	Optimium Moisture Content	5.31	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material House Pvt Ltd. Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1467/2021-22	Date	09-10-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	08-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	08-10-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken			15000								
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	2012.2	13.41	13.41	86.59	80-100	100	100	100	80-100	100
25	2122.8	14.15	27.56	72.44	55-90	70-100	55-75	50-80	55-90	75-100
10	2467.4	16.45	44.01	55.99	35-65	50-80	-	-	35-65	55-75
4.75	2163.4	14.42	58.43	41.57	25-55	40-65	10--30	15--35	25-50	30-55
2.36	1620.2	10.8	69.23	30.77	20-40	30-50	-	-	10--20	10--25
0.425	2562.4	17.08	86.31	13.69	10--15	10--15	-	-	0-5	0-8
0.075	1824.2	12.16	98.47	1.53	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.72	Should not be more than 2%
2	Maximum Dry Density	1.99	-
3	Optimium Moisture Content	5.31	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1468/2021-22	Date	09-10-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	08-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	08-10-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken 15000

I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1996.2	13.31	13.31	86.69	80-100	100	100	100	80-100	100
25	2222.4	14.82	28.13	71.87	55-90	70-100	55-75	50-80	55-90	75-100
10	2542.2	16.95	45.08	54.92	35-65	50-80	-	-	35-65	55-75
4.75	2262.8	15.09	60.17	39.83	25-55	40-65	10--30	15--35	25-50	30-55
2.36	1252.4	8.35	68.52	31.48	20-40	30-50	-	-	10--20	10--25
0.425	2662.4	17.75	86.27	13.73	10--15	10--15	-	-	0-5	0-8
0.075	1952.4	13.02	99.29	0.71	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.68	Should not be more than 2%
2	Maximum Dry Density	2.03	-
3	Optimium Moisture Content	5.29	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd., Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1469/2021-22	Date	11-10-2021
	TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	11-10-2021		
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)		
Date of Testing	11-10-2021		
Technical Referance	MORTH Specifications		

GSB MATERIAL

Weight of Sample taken			15000							
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1866.4	12.44	12.44	87.56	80-100	100	100	100	80-100	100
25	2362.8	15.75	28.19	71.81	55-90	70-100	55-75	50-80	55-90	75-100
10	2322.2	15.48	43.67	56.33	35-65	50-80	-	-	35-65	55-75
4.75	1968.8	13.13	56.8	43.2	25-55	40-65	10--30	15--35	25-50	30-55
2.36	1156.4	7.71	64.51	35.49	20-40	30-50	-	-	10--20	10--25
0.425	3268.8	21.79	86.3	13.7	10--15	10--15	-	-	0-5	0-8
0.075	2012.6	13.42	99.72	0.28	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.69	Should not be more than 2%
2	Maximum Dry Density	2.01	-
3	Optimium Moisture Content	5.26	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd Bangalore

Approved by
Narayanswamy.B

Note:
1)This report is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1470/2021-22	Date	12-10-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	12-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	12-10-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken *15000*

I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	2024.6	13.5	13.5	86.5	80-100	100	100	100	80-100	100
25	2168.4	14.46	27.96	72.04	55-90	70-100	55-75	50-80	55-90	75-100
10	2241.8	14.95	42.91	57.09	35-65	50-80	-	-	35-65	55-75
4.75	1864.8	12.43	55.34	44.66	25-55	40-65	10--30	15--35	25-50	30-55
2.36	1068.4	7.12	62.46	37.54	20-40	30-50	-	-	10--20	10--25
0.425	3624.8	24.17	86.63	13.37	10--15	10--15	-	-	0-5	0-8
0.075	1962.4	13.08	99.71	0.29	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.69	Should not be more than 2%
2	Maximum Dry Density	2.01	-
3	Optimium Moisture Content	5.26	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd ★ Bangalore ★

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1471/2021-22	Date	17-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	17-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	17-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL — 10000

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	312.2	312.2	3.12	96.88	95-100
22.4	2546.4	2858.6	28.59	71.41	60-80
11.2	2546.2	5404.8	54.05	45.95	40-60
4.75	1325.8	6730.6	67.31	32.69	25-40
2.36	1242	7972.6	79.73	20.27	15-30
0.6	768.8	8741.4	87.41	12.59	8--22
0.75	765.4	9506.8	95.07	4.93	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.76	Should not be more than 2%
2	Flakiness & Elongation Index	26.9%	Shall not be more than 40%
3	Aggregate Crushing Value	20.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ... ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ, ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd. Bangalore

Approved by
Narayanswamy.B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1472/2021-22	Date	17-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	17-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	17-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL | 10000

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298.6	298.6	2.99	97.01	95-100
22.4	2867.2	3165.8	31.66	68.34	60-80
11.2	3002.4	6168.2	61.68	38.32	40-60
4.75	1764.8	7933	79.33	20.67	25-40
2.36	998.6	8931.6	89.32	10.68	15-30
0.6	1002.4	9934	99.34	0.66	8--22
0.75	26.2	9960.2	99.60	0.40	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd. Bangalore

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1473/2021-22	Date	20-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	20-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	20-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		10000			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	300.2	300.2	3.00	97.00	95-100
22.4	2764.8	3065	30.65	69.35	60-80
11.2	2862.2	5927.2	59.27	40.73	40-60
4.75	1524.2	7451.4	74.51	25.49	25-40
2.36	862.4	8313.8	83.14	16.86	15-30
0.6	720.2	9034	90.34	9.66	8--22
0.75	552.8	9586.8	95.87	4.13	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.86%	Should not be more than 2%
2	Flakiness & Elongation Index	32.2%	Shall not be more than 40%
3	Aggregate Crushing Value	17.6%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Bangalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1474/2021-22	Date	20-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	20-09-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase.
Date of Testing	20-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		10000			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298.6	298.6	2.99	97.01	95-100
22.4	2686.8	2985.4	29.85	70.15	60-80
11.2	2786.4	5771.8	57.72	42.28	40-60
4.75	1642.8	7414.6	74.15	25.85	25-40
2.36	842.6	8257.2	82.57	17.43	15-30
0.6	710.2	8967.4	89.67	10.33	8--22
0.75	562.4	9529.8	95.30	4.70	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.79%	Should not be more than 2%
2	Flakiness & Elongation Index	31.8%	Shall not be more than 40%
3	Aggregate Crushing Value	18.2%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1475/2021-22	Date	22-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	22-09-2021
Source of Sample	Collected From the Site (AMS Extention, AMS Layout, 4th Phase)
Date of Testing	22-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		***10000***			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	302.2	302.2	3.02	96.98	95-100
22.4	2781.6	3083.8	30.84	69.16	60-80
11.2	2856.4	5940.2	59.40	40.60	40-60
4.75	1684.8	7625	76.25	23.75	25-40
2.36	856.4	8481.4	84.81	15.19	15-30
0.6	716	9197.4	91.97	8.03	8--22
0.75	558.6	9756	97.56	2.44	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.81%	Should not be more than 2%
2	Flakiness & Elongation Index	33.6%	Shall not be more than 40%
3	Aggregate Crushing Value	19.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,
Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy
CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1476/2021-22				Date	24-09-2021
	TEST REPORT ON WET MIX MACADAM (WMM)					
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.					
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021					
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094					
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)					
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21					
Job Code No	003-20-000086					
Clients Letter Dated	24-09-2021					
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)					
Date of Testing	24-09-2021					
Technical Referance	MORTH Specifications					

WMM MATERIAL		**10000**			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	289.6	289.6	2.90	97.10	95-100
22.4	2846.2	3135.8	31.36	68.64	60-80
11.2	2561.2	5697	56.97	43.03	40-60
4.75	1538.6	7235.6	72.36	27.64	25-40
2.36	936.4	8172	81.72	18.28	15-30
0.6	823.4	8995.4	89.95	10.05	8--22
0.75	626.4	9621.8	96.22	3.78	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.81%	Should not be more than 2%
2	Flakiness & Elongation Index	33.6%	Shall not be more than 40%
3	Aggregate Crushing Value	19.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd ★ Bangalore ★

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1477/2021-22	Date	24-09-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	24-09-2021
Source of Sample	Collected From the Site (AMS Extention, AMS Layout, 4th Phase)
Date of Testing	24-09-2021
Technical Referance	MORTH Specifications

WMM MATERIAL		***10000***			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	310.6	310.6	3.11	96.89	95-100
22.4	2952.4	3263	32.63	67.37	60-80
11.2	2634.8	5897.8	58.98	41.02	40-60
4.75	1624.8	7522.6	75.23	24.77	25-40
2.36	942.8	8465.4	84.65	15.35	15-30
0.6	833.2	9298.6	92.99	7.01	8--22
0.75	633.2	9931.8	99.32	0.68	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.77%	Should not be more than 2%
2	Flakiness & Elongation Index	31.2%	Shall not be more than 40%
3	Aggregate Crushing Value	18.2%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd, Bangalore

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094

Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com

M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1478/2021-22		
	TEST REPORT ON WET MIX MACADAM (WMM)	Date	27-09-2021

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	27/09/201
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	27/09/201
Technical Referance	MORTH Specifications

WMM MATERIAL		10000			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	306.8	306.8	3.07	96.93	95-100
22.4	2898.6	3205.4	32.05	67.95	60-80
11.2	2596.8	5802.2	58.02	41.98	40-60
4.75	1657.4	7459.6	74.60	25.40	25-40
2.36	968.4	8428	84.28	15.72	15-30
0.6	845.6	9273.6	92.74	7.26	8--22
0.75	653.4	9927	99.27	0.73	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.80%	Should not be more than 2%
2	Flakiness & Elongation Index	30.6%	Shall not be more than 40%
3	Aggregate Crushing Value	18.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B.

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1479/2021-22	Date	13-10-2021
	TEST REPORT ON WET MIX MACADAM (WMM)		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	13-10-2021		
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)		
Date of Testing	13-10-2021		
Technical Referance	MORTH Specifications		

WMM MATERIAL		10000			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	289.6	289.6	2.90	97.10	95-100
22.4	2916.2	3205.8	32.06	67.94	60-80
11.2	2608.4	5814.2	58.14	41.86	40-60
4.75	1682.4	7496.6	74.97	25.03	25-40
2.36	816.4	8313	83.13	16.87	15-30
0.6	615.4	8928.4	89.28	10.72	8--22
0.75	753.2	9681.6	96.82	3.18	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.80%	Should not be more than 2%
2	Flakiness & Elongation Index	30.6%	Shall not be more than 40%
3	Aggregate Crushing Value	18.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1480/2021-22			Date	17-10-2021
	TEST REPORT ON WET MIX MACADAM (WMM)				
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.				
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021				
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094				
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)				
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21				
Job Code No	003-20-000086				
Clients Letter Dated	15-10-2021				
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)				
Date of Testing	15-10-2021				
Technical Referance	MORTH Specifications				

WMM MATERIAL		10000			
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	300.2	300.2	3.00	97.00	95-100
22.4	3012.4	3312.6	33.13	66.87	60-80
11.2	2846.2	6158.8	61.59	38.41	40-60
4.75	1562.4	7721.2	77.21	22.79	25-40
2.36	716.4	8437.6	84.38	15.62	15-30
0.6	586.2	9023.8	90.24	9.76	8--22
0.75	549.6	9573.4	95.73	4.27	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.80%	Should not be more than 2%
2	Flakiness & Elongation Index	30.6%	Shall not be more than 40%
3	Aggregate Crushing Value	18.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No+A1:K2A1:K	KMTH/DGBM/1410/2021-22		
TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)		Date	19-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	19-10-2021		
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)		
Date of Testing	19-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	*Weight of sample taken*	1000		gm	GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
	0.0	0	0.00	100.00	100
37.5	62.2	62.2	6.22	93.78	90-100
26.5	232.2	294.4	29.44	70.56	71-95
19	162.2	456.6	45.66	54.34	56-80
13.2	117.2	573.8	57.38	42.62	38-54
4.75	121.2	695	69.50	30.50	28-42
2.36	142.6	837.6	83.76	16.24	7--21
0.3	110.2	947.8	94.78	5.22	2--8
0.075					

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	520.0	489.8	30.20	5.81
2	518.6	488.4	30.20	5.82
3	515.4	487.6	27.80	5.39
4	517.2	488.8	28.40	5.49

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. ★ Bengalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1411/2021-22	Date	19-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	19-10-2021
Source of Sample	Collected From the Site (AMS Extention, AMS Layout, 4th Phase)
Date of Testing	19-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*		*gm*	*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	52.4	52.4	5.24	94.76	90-100
19	232.6	285	28.50	71.50	71-95
13.2	142.2	427.2	42.72	57.28	56-80
4.75	100.2	527.4	52.74	47.26	38-54
2.36	162.2	689.6	68.96	31.04	28-42
0.3	186.6	876.2	87.62	12.38	7--21
0.075	96.6	972.8	97.28	2.72	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	481.6	28.40	5.57
2	512.2	482.2	30.00	5.86
3	510.4	481.2	29.20	5.72
4	514.2	486.8	27.40	5.33

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House ★ Bangalore ★

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1Z1 PAN No: AACCK4994Q

Report No	KMTH/DGBM/1412/2021-22	Date	20-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	20-10-2021
Source of Sample	Collected From the Site (AMS Layout, Ams Extention, 4th Phase)
Date of Testing	20-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***		gm	***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	64.2	64.2	6.42	93.58	90-100
19	202.4	266.6	26.66	73.34	71-95
13.2	162.2	428.8	42.88	57.12	56-80
4.75	113.4	542.2	54.22	45.78	38-54
2.36	158.6	700.8	70.08	29.92	28-42
0.3	192.4	893.2	89.32	10.68	7--21
0.075	98.2	991.4	99.14	0.86	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	512.2	481.6	30.60	5.97
2	513.2	483.2	30.00	5.85
3	512.2	484.2	28.00	5.47
4	514.2	485.6	28.60	5.56

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. ★ Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬೃ.ಬೆ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1413/2021-22		
TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)		Date	20-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:- 03 Under road development head in Chief Minister Navanagaraothana of Yelahanka		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	20-10-2021		
Source of Sample	Collected From the Site (AMS Layout, Ams Extention, 4th Phase)		
Date of Testing	20-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	Weight of sample taken	1000		gm	GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	59.6	59.6	5.96	94.04	90-100
19	242.2	301.8	30.18	69.82	71-95
13.2	156.6	458.4	45.84	54.16	56-80
4.75	118.4	576.8	57.68	42.32	38-54
2.36	126.2	703	70.30	29.70	28-42
0.3	152.2	855.2	85.52	14.48	7--21
0.075	126.2	981.4	98.14	1.86	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.6	482.6	28.00	5.48
2	510.2	480.2	30.00	5.88
3	509.8	481.4	28.40	5.57
4	509.6	482.2	27.40	5.38

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B.

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1414/2021-22	Date	21-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	21-10-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	21-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	50.2	50.2	5.02	94.98	90-100
19	230.2	280.4	28.04	71.96	71-95
13.2	141.2	421.6	42.16	57.84	56-80
4.75	106.4	528	52.80	47.20	38-54
2.36	162.2	690.2	69.02	30.98	28-42
0.3	176.8	867	86.70	13.30	7--21
0.075	96.6	963.6	96.36	3.64	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	508.4	479.6	28.80	5.66
2	508.6	478.2	30.40	5.98
3	509.4	477.2	32.20	6.32
4	507.8	478.4	29.40	5.79

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. Bangalore

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

		Date	21-10-2021
Report No	KMTH/DGBM/1415/2021-22		
TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)			
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	21-10-2021		
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)		
Date of Testing	21-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
			0.00	100.00	100
37.5	0.0	0	5.94	94.06	90-100
26.5	59.4	59.4	25.96	74.04	71-95
19	200.2	259.6	41.94	58.06	56-80
13.2	159.8	419.4	52.92	47.08	38-54
4.75	109.8	529.2	68.78	31.22	28-42
2.36	158.6	687.8	88.98	11.02	7--21
0.3	202.0	889.8	98.66	1.34	2--8
0.075	96.8	986.6			

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
				5.88
1	510.0	480.0	30.00	6.00
2	510.2	479.6	30.60	5.65
3	509.8	481.0	28.80	5.68
4	510.2	481.2	29.00	

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com

M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No+A1:K2A1:K	KMTH/DGBM/1416/2021-22	Date	22-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	22-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	22-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	58.8	58.8	5.88	94.12	90-100
19	212.2	271	27.10	72.90	71-95
13.2	142.6	413.6	41.36	58.64	56-80
4.75	113.6	527.2	52.72	47.28	38-54
2.36	132.2	659.4	65.94	34.06	28-42
0.3	150.4	809.8	80.98	19.02	7–21
0.075	119.6	929.4	92.94	7.06	2–8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	511.2	481.2	30.00	5.87
2	512.2	480.6	31.60	6.17
3	510.6	479.6	31.00	6.07
4	511.4	481.0	30.40	5.94

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ... ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4984Q1ZD PAN No: AACCK4984Q

Report No	KMTH/DGBM/1417/2021-22	Date	22-10-2021
	TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	22-10-2021		
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)		
Date of Testing	22-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-I
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	52.4	52.4	5.24	94.76	90-100
19	232.6	285	28.50	71.50	71-95
13.2	142.2	427.2	42.72	57.28	56-80
4.75	100.2	527.4	52.74	47.26	38-54
2.36	162.2	689.6	68.96	31.04	28-42
0.3	186.6	876.2	87.62	12.38	7–21
0.075	96.6	972.8	97.28	2.72	2–8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	481.6	28.40	5.57
2	512.2	482.2	30.00	5.86
3	510.4	481.2	29.20	5.72
4	514.2	486.8	27.40	5.33

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by [signature]
Nagaraj K S

Approved by [signature]
Narayanaswamy.B

Karnataka Material Test House Pvt. Ltd. ★ Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writting.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1418/2021-22	Date	24-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	24-10-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	24-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	gm		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	91.4	91.4	9.14	90.86	90-100
19	197.6	289	28.90	71.10	71-95
13.2	152.6	441.6	44.16	55.84	56-80
4.75	110.2	551.8	55.18	44.82	38-54
2.36	148.2	700	70.00	30.00	28-42
0.3	202.2	902.2	90.22	9.78	7--21
0.075	62.2	964.4	96.44	3.56	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	512.2	481.6	30.60	5.97
2	513.2	483.2	30.00	5.85
3	512.2	484.2	28.00	5.47
4	514.2	485.6	28.60	5.56

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1419/2021-22	Date	24-10-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	24-10-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	24-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000		gm	GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	81.2	81.2	8.12	91.88	90-100
19	186.8	268	26.80	73.20	71-95
13.2	142.2	410.2	41.02	58.98	56-80
4.75	106.4	516.6	51.66	48.34	38-54
2.36	147.6	664.2	66.42	33.58	28-42
0.3	198.2	862.4	86.24	13.76	7--21
0.075	63.2	925.6	92.56	7.44	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	506.4	476.6	29.80	5.88
2	508.4	475.4	33.00	6.49
3	507.2	475.8	31.40	6.19
4	506.2	476.2	30.00	5.93

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ... ಉಪನಗರ ಉಪವಿಭಾಗ.
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137   G S T No: 29AACCK4994Q1ZI   PAN No: AACCK4994Q

Report No	KMTH/BC/1421/2021-22	Date	23-10-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	23-10-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	23-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***		***gm***	***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	42.6	42.6	4.26	95.74	90-100
9.5	232.6	275.2	27.52	72.48	70-88
4.75	145.2	420.4	42.04	57.96	53-71
2.36	98.6	519	51.90	48.10	42-58
1.18	72.6	591.6	59.16	40.84	34-48
0.6	81.2	672.8	67.28	32.72	26-38
0.3	78.4	751.2	75.12	24.88	18-28
0.15	86.8	838	83.80	16.20	12--20
0.075	98.8	936.8	93.68	6.32	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	518.4	485.6	32.80	6.33
2	516.8	481.2	35.60	6.89
3	515.2	483.2	32.00	6.21
4	510.4	481.2	29.20	5.72

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd ★ Bangalore ★

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1422/2021-22	Date	23-10-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	23-10-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	23-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	32.4	32.4	3.24	96.76	90-100
9.5	262.4	294.8	29.48	70.52	70-88
4.75	149.8	444.6	44.46	55.54	53-71
2.36	102.4	547	54.70	45.30	42-58
1.18	86.4	633.4	63.34	36.66	34-48
0.6	86.4	719.8	71.98	28.02	26-38
0.3	72.4	792.2	79.22	20.78	18-28
0.15	86.4	878.6	87.86	12.14	12--20
0.075	56.2	934.8	93.48	6.52	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	509.4	480.2	29.20	5.73
2	505.2	472.4	32.80	6.49
3	500.2	465.2	35.00	7.00
4	506.2	477.8	28.40	5.61

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. ★ Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094

Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com

M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1423/2021-22	Date	24-12-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	24-12-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	24-12-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	**1000**	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	28.6	28.6	2.86	97.14	90-100
9.5	251.2	279.8	27.98	72.02	70-88
4.75	162.2	442	44.20	55.80	53-71
2.36	110.2	552.2	55.22	44.78	42-58
1.18	93.2	645.4	64.54	35.46	34-48
0.6	102.2	747.6	74.76	25.24	26-38
0.3	53.2	800.8	80.08	19.92	18-28
0.15	65.2	866	86.60	13.40	12--20
0.075	75.4	941.4	94.14	5.86	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	505.2	473.4	31.80	6.29
2	505.0	473.8	31.20	6.18
3	504.2	474.8	29.40	5.83
4	505.2	472.8	32.40	6.41

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1423/2021-22	Date	24-12-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	24-12-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	24-12-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	32.2	32.2	3.22	96.78	90-100
9.5	198.6	230.8	23.08	76.92	70-88
4.75	152.2	383	38.30	61.70	53-71
2.36	102.2	485.2	48.52	51.48	42-58
1.18	91.2	576.4	57.64	42.36	34-48
0.6	98.6	675	67.50	32.50	26-38
0.3	46.6	721.6	72.16	27.84	18-28
0.15	112.6	834.2	83.42	16.58	12--20
0.075	82.4	916.6	91.66	8.34	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	500.2	472.2	28.00	5.60
2	502.4	471.2	31.20	6.21
3	502.6	470.6	32.00	6.37
4	502.4	470.8	31.60	6.29

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd * Bangalore *

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1424/2021-22 — Date: 25-10-2021
	TEST REPORT ON BITUMIOUS CONCRETE
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	25-10-2021
Source of Sample	Collected From the Site (Ams Layout, Ams Extention, 4th Phase)
Date of Testing	25-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***		***gm***	***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	29.4	29.4	2.94	97.06	90-100
9.5	252.2	281.6	28.16	71.84	70-88
4.75	152.6	434.2	43.42	56.58	53-71
2.36	112.4	546.6	54.66	45.34	42-58
1.18	90.4	637	63.70	36.30	34-48
0.6	106.4	743.4	74.34	25.66	26-38
0.3	55.4	798.8	79.88	20.12	18-28
0.15	66.2	865	86.50	13.50	12--20
0.075	82.2	947.2	94.72	5.28	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	506.2	472.6	33.60	6.64
2	508.4	472.4	36.00	7.08
3	508.2	473.2	35.00	6.89
4	506.6	472.6	34.00	6.71

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1425/2021-22	Date	25-10-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	25-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	25-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	33.2	33.2	3.32	96.68	90-100
9.5	232.2	265.4	26.54	73.46	70-88
4.75	152.4	417.8	41.78	58.22	53-71
2.36	98.6	516.4	51.64	48.36	42-58
1.18	83.6	600	60.00	40.00	34-48
0.6	101.4	701.4	70.14	29.86	26-38
0.3	42.6	744	74.40	25.60	18-28
0.15	72.6	816.6	81.66	18.34	12--20
0.075	106.2	922.8	92.28	7.72	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.2	476.2	34.00	6.66
2	508.4	472.4	36.00	7.08
3	509.4	474.2	35.20	6.91
4	510.0	475.2	34.80	6.82

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. Bangalore

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1426/2021-22		
	TEST REPORT ON BITUMIOUS CONCRETE	Date	26-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	26-10-2021		
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)		
Date of Testing	26-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	***Weight of sample taken***	***1000***		***gm***	***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	29.2	29.2	2.92	97.08	90-100
9.5	246.6	275.8	27.58	72.42	70-88
4.75	152.2	428	42.80	57.20	53-71
2.36	98.6	526.6	52.66	47.34	42-58
1.18	86.2	612.8	61.28	38.72	34-48
0.6	92.6	705.4	70.54	29.46	26-38
0.3	49.8	755.2	75.52	24.48	18-28
0.15	98.6	853.8	85.38	14.62	12--20
0.075	75.4	929.2	92.92	7.08	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	509.6	474.6	35.00	6.87
2	510.2	475.4	34.80	6.82
3	508.8	473.6	35.20	6.92
4	508.4	473.4	35.00	6.88

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved By
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1427/2021-22		
	TEST REPORT ON BITUMIOUS CONCRETE	Date	26-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	26-10-2021		
Source of Sample	Collected From the Site (Ams Layout, AMS Extention, 4th Phase)		
Date of Testing	26-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	27.8	27.8	2.78	97.22	90-100
9.5	236.4	264.2	26.42	73.58	70-88
4.75	152.6	416.8	41.68	58.32	53-71
2.36	96.6	513.4	51.34	48.66	42-58
1.18	102.2	615.6	61.56	38.44	34-48
0.6	112.2	727.8	72.78	27.22	26-38
0.3	62.5	790.3	79.03	20.97	18-28
0.15	76.4	866.7	86.67	13.33	12--20
0.075	65.2	931.9	93.19	6.81	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	505.2	473.4	31.80	6.29
2	505.0	473.8	31.20	6.18
3	504.2	474.8	29.40	5.83
4	505.2	472.8	32.40	6.41

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writling.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1428/2021-22	Date	26-10-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	26-10-2021
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)
Date of Testing	26-10-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000		gm	GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	28.4	28.4	2.84	97.16	90-100
9.5	249.6	278	27.80	72.20	70-88
4.75	156.2	434.2	43.42	56.58	53-71
2.36	108.4	542.6	54.26	45.74	42-58
1.18	95.6	638.2	63.82	36.18	34-48
0.6	100.2	738.4	73.84	26.16	26-38
0.3	56.4	794.8	79.48	20.52	18-28
0.15	68.2	863	86.30	13.70	12--20
0.075	78.4	941.4	94.14	5.86	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	505.2	473.4	31.80	6.29
2	505.0	473.8	31.20	6.18
3	504.2	474.8	29.40	5.83
4	505.2	472.8	32.40	6.41

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

Approved by
Narayanswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1429/2021-22	Date	27-10-2021
	TEST REPORT ON BITUMIOUS CONCRETE		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	27-10-2021		
Source of Sample	Collected From the Site (AMS Layout, AMS Extention, 4th Phase)		
Date of Testing	27-10-2021		
Technical Referance	MORTH SPECIFICATIONS		

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	29.6	29.6	2.96	97.04	90-100
9.5	256.2	285.8	28.58	71.42	70-88
4.75	172.2	458	45.80	54.20	53-71
2.36	105.4	563.4	56.34	43.66	42-58
1.18	95.6	659	65.90	34.10	34-48
0.6	106.4	765.4	76.54	23.46	26-38
0.3	56.2	821.6	82.16	17.84	18-28
0.15	66.2	887.8	88.78	11.22	12–20
0.075	78.4	966.2	96.62	3.38	4–10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	475.4	34.60	6.78
2	506.4	474.6	31.80	6.28
3	508.8	473.4	35.40	6.96
4	506.4	472.8	33.60	6.64

As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Off & Lab : No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph: 080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/1441/2021--22	Date	19-10-2021

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	19-09-2021
Date of Testing	19-09-2021
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	8.8	0.88	0.88	99.12	90 – 100	*90 – 100*	90 – 100	90-100
2.36	30.2	3.02	3.90	96.10	60 – 95	*75 – 100*	85 – 100	95-100
1.18	215.2	21.52	25.42	74.58	30 – 70	*55 – 90*	75 – 100	90-100
0.6	270.4	27.04	52.46	47.54	15 – 34	*35 – 59*	60 – 79	80-100
0.3	286.4	28.64	81.10	18.90	5 – 20	*8 – 30*	12 – 40	15-50
0.15	133.2	13.32	94.42	5.58	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Bangalore ★ Karnataka Pvt Ltd

..........End of Report..........

Note 1. This report is not to be reproduced expect in full without our permission in writing

2.The results listed refer only to the samples and applicable parameters.

3.Any correction in this report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094

Ph:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com

M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/1441/2021-22	Date	19-10-2021
	TEST REPORT ON FINE AGGRERGATE		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	19-09-2021		
Date of Testing	19-09-2021		
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016		

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	11.2	1.12	1.12	98.88	90 – 100	*90 – 100*	90 – 100	90-100
2.36	61.2	6.12	7.24	92.76	60 – 95	*75 – 100*	85 – 100	95-100
1.18	206.8	20.68	27.92	72.08	30 – 70	*55 – 90*	75 – 100	90-100
0.6	265.2	26.52	54.44	45.56	15 – 34	*35 – 59*	60 – 79	80-100
0.3	223.2	22.32	76.76	23.24	5 – 20	*8 – 30*	12 – 40	15-50
0.15	150.2	15.02	91.78	8.22	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd Bangalore

..........End of Report..........

Note 1. This report is not to be reproduced expect in full without our permission in writing

2.The results listed refer only to the samples and applicable parameters.

3.Any correction in this report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1450/2021-22	Date	18-10-2021

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	18-09-2021
Date of Testing	18-09-2021
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	352.6	7.05	7.05	92.95	85-100	90 to 100	
10	4486.8	89.74	96.79	3.21	0 to 20	25 to 55	
4.75	120.2	2.40	99.19	0.81	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	416.8	8.34	8.34	91.66	85-100	90 to 100	
20	2156.8	43.14	51.47	48.53	0 to 20	30 to 70	
10	1268.4	25.37	76.84	23.16	0 to 5	10 to 25	
4.75	986.4	19.73	96.57	3.43	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

..........End of Report..........

Note 1. This report is not to be reproduced expect in full without our permission in writing
2.The results listed refer only to the samples and applicable parameters.
3.Any correction in this report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1451//2021-22	Date	18-10-2021
	TEST REPORT ON COARSE AGGRERGATE		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	18-09-2021		
Date of Testing	18-09-2021		
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016		

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	198.6	3.97	3.97	96.03	85-100	90 to 100	
10	3268.4	65.37	69.34	30.66	0 to 20	25 to 55	
4.75	1526.4	30.53	99.87	0.13	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	152.8	3.06	3.06	96.94	85-100	90 to 100	
20	2268.4	45.37	48.42	51.58	0 to 20	30 to 70	
10	1872.6	37.45	85.88	14.12	0 to 5	10 to 25	
4.75	526.4	10.53	96.40	3.60	-	0 to 5	

*As furnished by the client

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. Bangalore

.........End of Report.........

Note
1. This report is not to be reproduced expect in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters.
3. Any correction in this report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy
CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1481/2021-22	Date	20-10-2021

TEST REPORT ON CEMENT

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	18-09-2021
Date of Testing	20-09-2021
Technical Referance	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989

Sl. No.		Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1		Normal consistency in %	28	Not specified	-
2		Initial setting time in	162.8	Shall not be less than 30 minutes	P
3		Final setting time in minutes	308.4	Shall not be more than 600 minutes	P
4		Compressive strength (Average of three results) in N/mm2			
	a	72+1h (3 days)	25.33	Shall not be less than 23.0 MPa	P
	b	168+2h (7 days)	38.86	Shall not be less than 33.0 MPa	P
	c	672+4h (28 days)	47.24	Shall not be less than 43.0 MPa	P

** As furnished by the client*

P : Passes IS requirement F: Fails IS requirements

TTC : Test to be conducted

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

..........End of Report..........

Note
1. This report is not to be reproduced expect in full without our permission in writing
2.The results listed refer only to the samples and applicable parameters.
3.Any correction in this report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1491/2021-22	Date	21-10-2021

TEST REPORT ON STEEL

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	21-10-2021
Date of Testing	21-10-2021
Technical Referance	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia in	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 ÖAG.L)	Remarks
1	Fe-500	8	0.388	565.40	662.40	19.52	Passes
2		10	0.612	526.84	655.24	22.42	Passes
3		12	0.843	571.40	636.80	21.68	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test
2	10	5 dia	No cracks observed. Passes the test
3	12	7 dia	No cracks observed. Passes the test.

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.........End of Report..........

Note
1. This report is not to be reproduced expect in full without our permission in writing
2.The results listed refer only to the samples and applicable parameters.
3.Any correction in this report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/1492/2021-22	Date	21-10-2021

TEST REPORT ON STEEL

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	21-10-2021
Date of Testing	21-10-2021
Technical Referance	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia in	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 ÖAG.L)	Remarks
1	Fe-500	8	0.381	516.80	612.45	18.62	Passes
2		10	0.618	576.20	623.80	21.52	Passes
3		12	0.816	542.80	638.40	20.46	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test
2	10	5 dia	No cracks observed. Passes the test
3	12	7 dia	No cracks observed. Passes the test.

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

..........End of Report..........

Note
1. This report is not to be reproduced expect in full without our permission in writing
2. The results listed refer only to the samples and applicable parameters.
3. Any correction in this report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettyhalli, RMV 2nd Stage, BENGALURU 560094
Ph: 080-2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1571/2021-22		
	TEST RESULTS ON CONCRETE CUBES	Date	02-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	02-10-2021		
Date of Sample Received	02-10-2021		
Source of Sample	Casted & collected from the site (4th Phase)		
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00		
Grade of Concrete	M10		

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Raft Concrete	24-09-2021	01-10-2021	7 Days	22500.00	8271	223.6	9.94
2		24-09-2021	01-10-2021		22500.00	8262	242.1	10.76
3		24-09-2021	01-10-2021		22500.00	8231	229.3	10.19

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

......End of Report.........

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1572/2021-22	Date	21-10-2021
	TEST RESULTS ON CONCRETE CUBES		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	21-10-2021		
Date of Sample Received	21-10-2021		
Source of Sample	Casted & collected from the site (4th Phase)		
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00		
Grade of Concrete	M10		

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Drain Raft Concrete	24-09-2021	20-10-2021	28 Days	22500.00	7896	398.5	17.71
2		24-09-2021	20-10-2021		22500.00	7912	400.6	17.80
3		24-09-2021	20-10-2021		22500.00	7956	372.1	16.54

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

......End of Report......

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No KMTH/Cubes/1473/2021-22	TEST RESULTS ON CONCRETE CUBES	Date	03-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64,		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	02-10-2021		
Date of Sample Received	02-10-2021		
Source of Sample	Casted & collected from the site (4th Phase)		
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00		
Grade of Concrete	M10		

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	26-09-2021	02-10-2021	7 Days	22500.00	7986	242.3	10.77
2		26-09-2021	02-10-2021		22500.00	7992	241.9	10.75
3		26-09-2021	02-10-2021		22500.00	8001	239.6	10.65

* As furnished by the client

1N/Sq.mm=10kg/Sq.cm(Approx)

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. ★ Bangalore

.......End of Report........

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1474/2021-22	Date	23-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	23-10-2021
Date of Sample Received	23-10-2021
Source of Sample	Casted & collected from the site (4th Phase)
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	26-09-2021	23-10-2021	28 Days	22500.00	8001	401.6	17.85
2		26-09-2021	23-10-2021		22500.00	7993	398.1	17.69
3		26-09-2021	23-10-2021		22500.00	7996	400.9	17.82

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. Bangalore

......End of Report........

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Report No KMTH/Cubes/1571/2021-22	Date 04-10-2021
TEST RESULTS ON CONCRETE CUBES	
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	03-10-2021
Date of Sample Received	03-10-2021
Source of Sample	Casted & collected from the site (4th Phase)
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Raft Concrete	26-09-2021	03-10-2021	7 Days	22500.00	8264	426.8	18.97
2		26-09-2021	03-10-2021		22500.00	8232	398.8	17.72
3		26-09-2021	03-10-2021		22500.00	8216	412.6	18.34

1N/Sq.mm=10kg/Sq.cm(Approx)

* As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-64

......End of Report......

Note:
1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: [illegible] PAN No: [illegible]

Report No	KMTH/Cubes/1572/2021-22	Date	25-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	24-10-2021
Date of Sample Received	24-10-2021
Source of Sample	Casted & collected from the site (4th Phase)
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load in KN	Compressive Strength in Nmm²
1	Drain Raft Concrete	26-09-2021	24-10-2021	28 Days	22500.00	7998	611.2	27.16
2		26-09-2021	24-10-2021		22500.00	8002	608.8	27.06
3		26-09-2021	24-10-2021		22500.00	8012	608.8	27.06

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು,
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd. * Bangalore *

Approved By
Narayanswamy.B

......End of Report........

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1473/2021-22		Date	08-10-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	07-10-2021
Date of Sample Received	07-10-2021
Source of Sample	Casted & collected from the site (4th Phase)
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	30-09-2021	07-10-2021	7 Days	22500.00	8108	410.2	18.23
2		30-09-2021	07-10-2021		22500.00	8056	409.8	18.21
3		30-09-2021	07-10-2021		22500.00	8126	402.6	17.89

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by

Nagaraj K S

Approved by

Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House

......End of Report........

Note:

1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/1474/2021-22		
	TEST RESULTS ON CONCRETE CUBES	Date	29-10-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Clients Letter Dated	29-10-2021		
Date of Sample Received	29-10-2021		
Source of Sample	Casted & collected from the site (4th Phase)		
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00		
Grade of Concrete	M20		

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	30-09-2021	28-10-2021	28 Days	22500.00	8124	610.2	27.12
2		30-09-2021	28-10-2021		22500.00	8026	598.8	26.61
3		30-09-2021	28-10-2021		22500.00	8062	612.8	27.24

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt Ltd. ★ Bangalore ★

......End of Report.......

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/PAVERS/1499/2021-22	Date	13-11-2021

TEST RESULTS ON PAVER BLOCKS

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	13-11-2021
Date of Sample Received	13-11-2021
Source of Sample	Collecetd from the site
Technical Referance	IS:15658-2006, IS2386 P1

COMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2-(L/A)	Compressive Strength x (Correction Factor)1.18	Average Compressive Strength-N/mm2
		L	B	H						
1	SQUARE PAVERS	200.0	200.0	60.00	40000.00	3526	1450.00	36.25	42.78	42.25
2		200.0	200.0	60.00	40000.00	3624	1420.20	35.51	41.90	
3		200.0	200.0	60.00	40000.00	3624	1426.00	35.65	42.07	

Note : ***Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5***

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. ★ Bangalore

.........End of Report..............

Note 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/PAVERS/1501/2021-22 — Date: 13-11-2021
	TEST RESULTS ON PAVER BLOCKS
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Clients Letter Dated	13-11-2021
Date of Sample Received	13-11-2021
Source of Sample	Collecetd from the site
Technical Referance	IS:15658-2006, IS2386 P1

COMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2-(L/A)	Compressive Strength x (Correction Factor)1.18	Average Compressive Strength- N/mm2
		L	B	H						
1	SQUARE PAVERS	199.0	200.0	60.00	39800.00	3526	1510.00	37.94	44.77	44.04
2		198.0	199.0	58.80	39402.00	3624	1486.60	37.73	44.52	
3		200.0	200.0	60.00	40000.00	3624	1452.40	36.31	42.85	

Note : ***Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5***

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd Bangalore

........End of Report..............

Note *1)This reports is not to be reproduced except in full without our prior permission in writiing.*
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ,
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/1501/2021-22	
TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES	Date	13-11-2021
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.	
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021	
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)	
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21	
Job Code No	003-20-000086	
Date of Sample Received	13-11-2021	
Source of Sample	Collected From the Site	
Number of Specimens*	3 No`s Cement Concrete Slabs	
Size & Shape of Sample	slab Length -1500mm, Height-250mm,Width460mm	

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
250mm Slab														
1	S-01	95.00	195.00	2.05	7085	139.6	19.70	1.01	19.82	24.77	24.2	1.8620	0.00138	1347.81
2	S-02	95.00	195.00	2.05	7085	135.6	19.14	1.01	19.25	24.06		1.6248	0.00138	1176.11
3	S-03	95.00	195.00	2.05	7085	134.6	19.00	1.01	19.11	23.89		1.5260	0.00138	1104.59

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Bangalore ★ Karnataka Material Test House Pvt. Ltd ★

......End of Report........

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/1502/2021-22	Date	14-11-2021
	TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES		
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021		
Third Party Consultant	Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
Name of Project & Address	Improvements to Roads and drains and other developmental works in Attur ward no:-03 Under road development head in Chief Minister Navanagaraothana of Yelahanka Division (Package-02)		
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21		
Job Code No	003-20-000086		
Date of Sample Received	14-11-2021		
Source of Sample	Collected From the Site		
Number of Specimens*	3 No`s Cement Concrete Slabs		
Size & Shape of Sample	slab Length -1500mm, Height-250mm,Width460mm		

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
250mm Slab														
1	S-01	94.89	195.60	2.06	7068	136.4	19.30	1.01	19.43	24.28	24.2	1.5260	0.00138	1103.76
2	S-02	95.00	196.40	2.07	7085	135.5	19.13	1.01	19.27	24.08		1.6248	0.00139	1167.73
3	S-03	94.88	195.40	2.06	7067	136.8	19.36	1.01	19.48	24.36		1.5280	0.00138	1106.57

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt Ltd. ★ Bangalore ★

......End of Report........

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ, ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ, ಬೃ.ಬೆಂ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/1201/2021-22	Date	18-11-2021

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri .M.S.Venkatesh, M/s MSV construction and Company NO.163,5th cross ,2nd main road ,Prakashnagara Bangalore-560021
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Date of Sample Received	17-11-2021
Source of Sample	Collected From the Site
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	50.00	99.98	2.00	1963	35.2	17.94	1.00	17.94	22.42	21.8	0.8210	0.00020	4184.28
2	S-02	50.20	100.00	1.99	1978	34.2	17.29	1.00	17.27	21.59		0.7980	0.00020	4033.91
3	S-03	50.12	99.99	2.00	1972	33.8	17.14	1.00	17.13	21.41		0.8210	0.00020	4163.85

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

......End of Report........

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106